

FIGURE 1

1	cccggcactt	ctcagtgagg	ctctgtggct	cacctaagaa	accagcctcc	cttgcaggca
61	acgcctagct	ggcctggtct	ggaggctctc	ttcaaataatt	tacatccaca	cccaagatac
121	ggtcttgaga	tttgactcgc	atgattgcta	tgggacaagt	tttcatctgc	agtttaaatac
181	tgtttcccaa	cttacattag	gggtttggaa	ttctagatcg	tatttgaagt	gttggtgcca
241	cacacacctt	aacacctgca	cgctggcaac	aaaaccgtcc	gctctgcagc	acagctgggg
301	tcacctgacc	tttctcctgt	ccccccact	tgagctcagt	ggctggggcag	caggggatgc
361	atggccactg	gcggccaggt	gcagctctca	gctgggggtg	tcagaggacg	cctgtgtcct
421	cccctcccc	atccctctgt	cacccttgga	ggcagagaac	tttgcccgtc	agtcccatgg
481	ggaatgtcaa	caggcagggg	cagcactgca	gagatttcat	catgggtctcc	caggccctca
541	ggctcctctg	ccttctgctt	gggcttcagg	gctgcctggc	tgcaggtgcg	tccggggagg
601	ttttctccat	aaacttggtg	gaagggcagt	gggcaaatacc	aggagccagc	ccgggcttcc
661	caaacccccg	ccttgctccg	gacaccccc	tccaccagga	gggttttctg	gcggctcctg
721	ttcaattttct	ttcctttctag	aaaccagcat	ccaggcacag	gaggggaggc	ccttcttggt
781	agcccaggct	ttggcgggat	tatttttcaa	agaactttag	gagtgggtgg	tgctttcctg
841	gcccccatgg	ccctgcctgt	gaggtcggac	aagcgcaggg	agtctggggc	ctctcagagt
901	gcaggaagtg	cgcacagggt	gctcccaggc	tggggagcac	aggtagggga	cggtgcgtgg
961	gggatggcgc	ctggggcatg	ggggatgggg	tgtgggaaac	ggcatgtggg	gcgtagggga
1021	tgggggtgtg	aggatcgggg	gtggggatgg	cgtgtgggg	gtgggggatg	ggcgtgggg
1081	gggtggggcc	tgggaaacag	catgtggggc	atgggggtgt	ggggtgaggt	gtgggaaagt
1141	gtgtgggggt	tgggggatgg	ggcatggaaa	gggcgtgtgg	ggtgcagggg	atggggcatg
1201	gaggtgtggg	ggatgggggt	tgtgggggtg	cggggatggg	gcattgtggg	tgtgggggat
1261	ggggcatgga	aaggcgtgtg	gggtgcagag	gatggggcat	ggaggtctgg	ggcatgggg
1321	gtgtgggggt	tcgggggatg	ggcatggaaa	gggtgtgtgg	ggtgtgggga	tagggtcagg
1381	ggatggcgtg	gggggtgtgg	catggggatg	gcacgtgtgg	catggggatg	gggatggggg
1441	gtggggcatg	gccgagtggg	gctggggcctg	ggaatgggtg	gtggggcatg	gggatggcga
1501	gtaggggggt	tggcgtgagg	atggctagt	gggcgtgggg	atggcgtgtg	gggatggcga
1561	gtgggggggt	ggctgtgagg	gacagtgcct	gggatgtggc	tgcagcccta	gctcacagca
1621	tggccttatg	accccgcca	ccttcctgcc	caggcgggg	cgctaaggcc	tcaggaggag
1681	aaacacggga	catgccgtgg	aagccggggc	ctcacagagg	tgagcaggga	ctgccactgg
1741	ttttgtcctg	gggccagtg	ggggcaacat	cacctccttc	ccctcccatg	gcaaagagcc
1801	agcccgcggg	gtggctactg	cagtgcctcc	caaggagggt	gttccctgct	cgagagggaag
1861	tgaccgctcc	agcttggcct	tccctgggac	tgggggtgcag	gcgattttat	cttctttgct
1921	ccattctgtt	ccttccagat	aatcgtgtgt	tcttcatcag	gttttctctca	gttcttgaga
1981	gcttttctga	tgcaaatact	ctttcacccc	agggcgggtca	ccggctctgc	tcacaccagc
2041	ctccaagggt	gtgggtgtcc	cgggagtgtg	ggtgtcccgg	gggcgtgggt	gtcccggggag
2101	tgtgggtgtc	ccggggggcgt	gggtgtccc	ggagtgtggg	tgtcccgggg	gcgtgggtgt
2161	cccgggagt	tgggtgtccc	gggggagtgg	gtgtcccggg	agtgtgggtg	tcccaggggc
2221	gtgggtgtcc	cgggagtgtg	ggtgtcccgg	gggcgtgggt	gtcccggggag	tgtgggtgtc
2281	ccggaggcga	gggtgtccc	ggagtgtggg	tgtcccgggg	gcgtgggtgt	cccgggagt
2341	tgggtgtccc	gggggagtgg	gtgtcccggg	agtgtgggtg	tcccaggggc	gtgggtgtcc
2401	cgggagtgtg	ggtgtcccgg	gggcgtgggt	gtcccggggag	tgtgggtgtc	ccggagcgag
2461	ggtgtcccgg	gagtgtgggt	gtcccggggg	cgtgggtgtc	ccggaggcga	gggtgtcca
2521	ggagtgtggg	tgtcccgggg	gcgtgggtgt	cccgggagt	tgggtgtccc	ggaggcgagg
2581	gtgtcccggg	agtgtgggtg	tcccgggggc	gtgggtgtcc	cggaggcgag	ggtgtcccag
2641	gagtgtgggt	gtcccggggg	cgtgggtgtc	ccgggagtgt	gggtgttcca	gaggcgagg
2701	tatcccagaa	gtgtgagtgt	cccgggggtg	tgggtgtccc	gggggcgtgg	gtgtcccggg
2761	agtgtgggtg	tcccgggggc	gtgggtatcc	cagaagtgtg	agtgtcccag	gggcgtgggt
2821	gtcccggggg	gtgggtgtcc	cgggggtgtg	ggtgtcccgg	gggtcgtggg	tgtcccggga
2881	gcgtgggtgt	cggggactgc	agggacatgg	gcctcccttc	ccactcctgc	cgcccagggc
2941	acctcctgtg	aggactcgga	gtccgtgagt	tcccacctcc	ttgagcccg	ttctttgggt
3001	tcccgcctg	catcctcagc	ctccttccaa	accagaccag	ttctctagg	gcgtcgacgt
3061	gtgaaactga	ttttaaaaga	aacaggcggt	ggcctttctc	tcggccccc	gtggcccggt

FIGURE 1 (continued)

3121	agcgctcacc	ttccgtecct	tcttccgcgc	tcagtaacca	atttaggcgc	ctcctgcaga
3181	actcgggctc	ctgcccaccg	gcccacagcg	tccacctgag	gcctcttcct	cccagcaaag
3241	gtcgtccctc	cggaacgcgc	ctcctgcggc	ctctccagag	cccctcccgc	gcgtcctctc
3301	agccccgctc	gcctcctccc	ggggcctccc	tctcccgcct	gccccagggc	ccgtctccct
3361	cgcgggctga	ggcagggttcg	gcagcacggc	gcccggggcg	ggggtcactc	tccaccaccg
3421	cgtgggtgcc	acagctcacg	gcgctcccgg	gtgacgggtc	cctcggctgt	agggcgctct
3481	gaagagcggc	ctgctcggag	ctgagcgcac	gggggttgct	gcccctgggc	gtctctggcc
3541	ctcaccagcc	ccgtcttccc	atgggcaaaa	cggcgggtcct	gtttgtccac	aagtaaccgt
3601	cgggggttacg	gaggggcccag	gagctgcggc	ggggggctgt	gctctcagga	ccggccccag
3661	gaggatccgc	gcgaggtctg	gagctctcag	gggtcgcggg	ggacagaggg	gccccaaagc
3721	gaggcgggaa	ggcggcagaa	gcccaggacc	gccaagagct	ggcgaggaag	cccggggctc
3781	gctgtcgggg	gagccgggca	ggggccgcgc	ctcggcacca	ggacgcgagg	cctgggaagg
3841	cggatctggc	cgcgagcacg	cgggtgcgggt	ggagacgcag	ggatttgat	ttccgcgggc
3901	gctgcacgga	tttccacgcg	cggttcacgt	gggccccagg	gggtgcccgg	caccgggggc
3961	cgcgcgcct	tctcctgccc	ggcatcgacc	cgcagcctca	cgtttaccgc	ggcgcccgc
4021	gcccccttcg	cccgtctccg	cgcgtgcccc	cgagcgcgcc	ctcgggatca	gcccccgaa
4081	gcagagaggc	caggccggga	aggatgggcg	aacgggggtg	ctgaccggg	agcacggcag
4141	ggaggacacc	cagccaggcc	cgcgagcagc	gccgtcccc	tctccagga	cgggcgggaa
4201	cctgcgatgc	ccccgccgcg	tgggcccgtg	ggcggctctc	gaggcactgg	gcggggcacg
4261	cgggtgggcg	ttcacggaac	tcgcatttcc	cagtcttcgt	aaccaggag	gaagcccacg
4321	gcgtcctgca	ccggcgccgg	cgcgccaaag	cgttccctgga	ggagctgcgg	ccgggctccc
4381	tggagaggga	gtgcaaggag	gagcagtgt	ccttcgagga	ggcccgggag	atcttcaagg
4441	acgcggagag	gacgggtgagc	ccagcctcgg	ggcgccccgc	gcggacactg	cacggcgggc
4501	gtgaaccagg	ccgcgtgggg	ccgcctgcgt	ctctttggct	gcggcctgtg	ggcggcgaac
4561	acgcagcggc	gcccgcgcgc	gcgctctctc	tgcgggggtc	gctttccgcc	cggggtgact
4621	ccgctttcct	gggcgatgcc	cccaccccc	ggcacgcgct	ctccccgtgc	ggcgcaccg
4681	cgcctgcggg	ttttcacatc	agaaaatacg	atttgcacaa	gcacacttag	ggtgtcccc
4741	ttaaacttccc	aaggaggtcc	ccccagtcct	cgaagtcag	ggcagcctgc	gcctgcgaga
4801	cgcgcgcggc	tcgcagaagg	gacgtgggtga	gaagctggcc	cacagcatgc	caccagcggc
4861	acctcctcag	ggcacgtgtc	ggggagaaac	aacacttagg	gaccctggga	ctttctccag
4921	ctcacgctca	cgggtccacc	tcacactacc	aagatcacct	caatagacgg	acactcacac
4981	agggcacact	tcacactcac	aggtcacctc	acactcacag	gacacctcac	actcacaggg
5041	cacacttcac	actcacgggt	cacctcacac	tccaagatca	cctaaagagg	acacctcaca
5101	cagggcacac	ttcacactca	caggtcacac	ctcacacaga	tcatctcatt	ctcacaggac
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5221	cacaggacac	ctcacagagg	tcacctcaca	cggggcacac	ttcacactca	ggtcacctca
5281	caccacacag	acacctcaca	gaggtcacct	cacacccaca	ggacaactca	cagagggtcac
5341	ctcacacagg	acacctcaca	aaggtcacct	cacacccaca	ggacacctca	cactcatagg
5401	cacctcagtc	ttacaggaca	actcacactc	acaggtcacc	tatctcacag	gacacctcac
5461	actcacaggt	caccttactc	tcacaggaca	cctcacacag	ggcacacttc	actccacagg
5521	tcaccatacc	tcacacagat	cacctcatac	tcacagatca	cttcattcat	tctcacagga
5581	tacctcacac	tcagggcaca	cttcacactc	acaggtcaca	cctcacacag	atcatctcat
5641	tctcacagga	cacctccctc	tcacagggtca	ccttacactc	atctcacact	cacagggtcgc
5701	cacacctcac	actcacagga	tgcctcacac	tcacagaacc	acatctcata	tgcacaagac
5761	acctcacact	caggacacct	catgctcaaa	gaagcctcac	actcacagga	ggtcacagctg
5821	tctgaggcaa	aggctaacc	gaccttttcc	agacaaattg	aggatgggtca	tgcctagcat
5881	ttttatacac	ctagttttga	aagcatttct	catctgttgt	attctcacag	caccctgtga
5941	gtttaagtgc	agggtggccaa	cagtttcttc	agcaatcact	tttttctgtg	gagtgttttt
6001	gctgtttgtg	gaatattttg	catctgctac	tgcacctctc	ccccgtatgt	gtggccaccc
6061	tgtcagaggt	ggagctgtgg	ctcagagcct	gtgtacctcg	tcccagggtc	acagctcagc
6121	gacagaagag	tcagggttga	acctcgggtg	ttctgacttg	ggagcaggaa	atgtgtggtc
6181	acccatagtt	ccagatgtcc	tggggagggg	ccaagattag	aagaaacctc	cctcagctcc
6241	agaggaaagt	ctggcttctc	gagcccaccc	cgcagacccc	aggtccaagt	cccccaaccc
6301	cagttcatgg	tgtgtccagt	gcttaccggt	gggtgctctg	gtgaagggtg	atctcacag
6361	gcttgctctc	ttgttccttc	agaagctgtt	ctggatttct	tacagtgggtg	agtggatgat

FIGURE 1 (continued)

6421	caccaccagt	cctgcctgca	acccttctca	gcttactgac	accagcccac	tccacagatg
6481	gggaccagt	tgcctcaagt	ccatgccaga	atgggggctc	ctgcaaggac	cagctccagt
6541	cctatatctg	cttctgecte	cctgccttcg	agggccggaa	ctgtgagacg	cgtaaggccc
6601	cactttgggt	cccatatttg	cagagggccc	tggggagctg	gtggaggtgg	cctggccaac
6661	cgggctgcag	ggtgcaacaa	cctggtgggg	tgtgtaggcc	gggcattcag	ggctcagccc
6721	agttggaaat	tgggtctaggt	gacctttaaa	tcccttccag	tctgaggtct	ttgacaggga
6781	cccaaggttc	tgattatcag	actcagtggc	ccccttcgcg	gtcccggccc	tgggcaactt
6841	ctcagccctg	gagactggcc	cagttgagag	tccctgtgtc	ccgtgtgccc	attccagatc
6901	ccacctagct	aggtaccctg	ttggtaaact	tccccttctc	ctactttcca	ttacaaaggt
6961	ttgagggggt	tgtttttttt	tttaaccatc	tgaatattaa	attaatcaca	aagtttaggg
7021	cccccaacct	cccttggggt	cagtaattca	ctagaaggac	acatagaaat	ccaaatatcc
7081	actgagtgga	tacactcaca	ggtaccgttt	attacagcaa	aggatgcagg	cttaagtctg
7141	cagagggacc	agggacaagc	ttccccttgt	cctctcctgt	ggggtcatgt	ggacatcctt
7201	aattctccca	gaatgacgtg	tgacgagaa	gtgggaagta	ctgccaaact	tggggaacgc
7261	tacgagcccc	gtgtccagag	gtttgatcag	ggctcaatga	catagaccca	gctgaccagg
7321	cacgcatggc	tgacctcagt	ctcagccctt	ccagagctac	gccgataatg	cggccaaggc
7381	cccaccatac	atcacattgt	cagctagacc	atccagcatg	gctcaaggcc	caggtaaaca
7441	ccaacattcc	ctcaggcaag	accttccaag	ggcttagcgg	tcatttccca	ggagccaagg
7501	caaaggctac	cctttctctg	gcacagcagt	tcctccttga	ccaccaaga	ccacattctt
7561	acactgaatg	agctctcctg	tgcagcagcc	attttcttct	ctaagcagaa	gagagcccag
7621	caagctggag	gaggctgaag	agagaggctt	cctgctggtc	atctgggtcc	agaatgcctg
7681	gagatctctg	ctcagccctg	gtgccagca	gccctgggtg	gcctcctgca	gggcagcctt
7741	cccgccggag	tcctggactt	gctcagggcc	actccccttg	cccatgtcaa	ccaaagtcag
7801	gctgcccgtt	ctgcttcttc	tgtctgagcc	catgaccagt	gctgggacta	actgtcccc
7861	aggcgggctc	acggtgggtac	gaggccagct	tggagaactg	tctcagctct	ctggctcctt
7921	cgtcagttgg	gtctctgatt	ggaaagtccc	ttggacactt	taccatcccc	attggacttt
7981	cactttcccc	caggctccca	tcagctgctc	ggaagagtgg	tcaccctgga	ggccactgcc
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8161	gtgccaagct	caggctctgt	caccacagc	tcatgccacc	ttccaggcag	aacaccactg
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8281	tcagggtgtc	cccttcctgt	ccccagacaa	ggatgaccag	ctgatctgtg	tgaacgagaa
8341	cggcggctgt	gagcagtact	gcagtgaaca	cacgggcacc	aagcgtcct	gtcggtgcca
8401	cgaggggtac	tctctgctgg	cagacggggt	gtcctgcaca	cccacagggt	accaggcttc
8461	atgtcccagt	cccagatgac	accagtccct	gtcccactag	gattatctta	ctggacaaaa
8521	gacgggtggg	actggccttc	acatctactg	agcactaact	atgcactgac	caattgtgag
8581	gtgggatctg	ggcaccaagg	gtggcacagg	ccagcagcga	ccagtgacta	ggatgggac
8641	cctgggggca	atccctgaat	ggcctcaggc	cccctgccaa	cttctaggca	gaccagggga
8701	gccaagcaag	gcactatctc	acgtccaact	gcccactcgc	aggaatcctc	cgccagggtt
8761	catgaatcta	cttcggcaca	gccaatgtct	gtactgactg	ctgcccactc	tgcattccaa
8821	aactcgtaaa	ggctcctggg	aaaatgggat	gtttctccaa	accagcctgg	aacgaatggg
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9061	atcttttaggt	agaatttcat	tcaccttcta	ctaaagtcaa	acaacacatc	ttctccctga
9121	aaagtgagca	gagggcggtt	ttaagacgta	agccctctgt	ttcctccaaa	accagccctg
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9241	caggcccagc	cgaggccctg	ccttccacca	cccctggggc	ctgggagctc	ctgctcctgg
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9361	tagtggcacg	ttcatccctc	acaaatctct	gcacttttct	gacttttgtt	ttacacagtt
9421	gaatatccat	gtggaaaaat	acctattcta	gaaaaaagaa	atgccagcaa	accccaaggc
9481	cgaattgtgg	ggggcaagggt	gtgccccaaa	ggggagtgtc	catggcaggt	aaggcttccc
9541	ctggcttcag	gattccaagc	cctgaggggtc	ttgaagcctt	ttgaatgtga	acaacagctc
9601	tgggaaggga	aatgggcagg	tcagcccaag	cccacaggct	ccaagtcagc	acacctagca
9661	cctccagctc	gcggcacccc	catgctttta	gtggggcaag	gaaggagaaa	agaaaacgac

FIGURE 1 (continued)

9721 actcactgag ggtctaccct gtgcagagaa cctgcgaga tgcccatcc gagttgtcac
 9781 gtcgtcctca cggttactct ttgaggtggg atctttgcct gatctttgca aaatcaggag
 9841 cattggatca aagctatgtg aagatcctgt gaggtgaaca gtgaaatctc acagcgacat
 9901 ttgtattctt gggccgtgcc caagagcacg tctcggctag agaggggcac agcctcccag
 9961 agccagggtct gagcagcttt gcctgggagg gatctgcaaa gaccccagga tttcagaaag
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 10261 tccccgtgcc gaccgcggtg ctgggtgggt gccactcttc cctgtccgac cgcggtgctg
 10321 ggtgggtgcc actctcccct gtccgaccgc ggtgctgggt gggtgccact ctcccctgtc
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 10741 agcactccca ggagggccac tgggcccggg agaactgtgg agaatcgggg cagccctgt
 10801 cctcccagct gccagggcac agcatccctt cccacactgc aacaccaga cccagattc
 10861 accccagttc acttgtcccc acacgagcca caggctgcca cctggggcag gctggccac
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 11041 tgaggggggc ttcttccttc caggcgagca cgacctcagc gagcacgacg gggatgagca
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 11161 cgacatcgcg ctgctccgcc tgcaccagcc cgtggctctc actgacctg tgggtgccct
 11221 ctgctgccc gaacggacgt tctctgagag gacgctggcc ttcgtgcgct tctcattggt
 11281 cagcggctgg ggccagctgc tggaccgtgg cgccacggcc ctggagctca tggctcctca
 11341 cgtgccccgg ctgatgacct aggactgcct gcagcagtc cggaggtgg gagactcccc
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 11821 gagagagact gagggagaga ctctgaggac atggagagag actcaaagag actccaagat
 11881 tcaaagagac taatagagac acagagatgg aatagaaaag atgagaggca gaggcagaca
 11941 ggcgctggac agaggggcag gggagtgcc aagttgtcct ggaggcagac agcccagctg
 12001 agcctcctta cctcccttca gccaaagccc acctgcacgt gatctgctgg cctcaggct
 12061 gctgctctgc ctctattgct ggagacagta gaggcattgaa cacacatgga tgcacacaca
 12121 cacacgcca tgacacacaca cagagatatg cacacacacg gatgcacaca cagatgggtca
 12181 cacagagata cgcaaacaca ccgatgcaca cgcacataga gatatgcaca cacagatgca
 12241 cacacagata tacacatgga tgcacgcaca tgccaatgca cgcacacatc agtgcacacg
 12301 gatgcacaga gatatgcaca caccgatgtg cgcacacaca gatatgcaca cacatggatg
 12361 agcacacaca caccaagtgc gcacacacac cgatgtacac acacagatgc acacacagat
 12421 gcacacacac cgatgctgac tccatgtgtg ctgtcctctg aaggcggttg tttagctctc
 12481 acttttctgg ttcttatcca ttatcatctt cacttcagac aattcagaag catcaccatg
 12541 catggtggcg aatgccccca aactctcccc caaatgtatt tctcccttcg ctgggtgccg
 12601 ggctgcacag actattcccc acctgcttcc cagcttcaca ataaacggct gcgtctctc
 12661 cgcacacctg tgggtgcctgc caccactgg gttgcccattg attcattttt ggagcccccg
 12721 gtgctcatcc tctgagatgc tcttttcttt cacaattttc aacatcactg aaatgaacc
 12781 tcacatggaa gctatttttt aaaaacaaaa gctgtttgat agatgtttga ggctgtagct
 12841 cccaggatcc

FIGURE 2

MVSQALRLLCLLLGLQGCLAAGGVAKASGGETRDMPWKPGPHRVFVTQEEAHGVLHRRRRRANAFLE
ELRPGSLERECKEEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGSCKDQLQSYICFCLPAF
EGRNCETHKDDQLICVNENGGCEQYCS DHTGTRSCRCHEGYSLADGV SCTPTVEYPCGKIPILEKRN
ASKPQGRIVGGKVC PKGEC PWQV LLLVNGAQLCGGT LINTIWVVSAAHCFDKIKNWRNLIAVLGEHD
LSEHDGDEQSRRVAQVIIPSTYVPGTTNHDIALRLHQPVVLT DHVVPLCLPERTFSERTLAFVRFSLV S
GWGQLDRGATALELMVLNVPRLMTQDCLQQRKVGDS PNITEYMFCAGYSDGSKD SCKGDSGGPH
ATHYRGTWYLTGIVSWGQGCATVGHFGVYTRVSQYIEWLQKL MRSEPRPGVLLRAPFP